

What is claimed is:

- Sub Part
1. A dryer comprising:
a blower for generating an airstream,
a heater for increasing a temperature of the airstream, and
an air outlet for outputting the airstream, said air outlet having a perimeter to area
ratio greater than 2.5.
 2. The dryer of claim 1 wherein said perimeter to area ratio is greater than 5.
 3. The dryer of claim 1 wherein said perimeter to area ratio is greater than 2.5 and less than
7.
 4. The dryer of claim 1 wherein said perimeter to area ratio is greater than 5 and less than 7.
 5. The dryer of claim 1 wherein said air outlet is circular.
 6. The dryer of claim 1 wherein said air outlet has an air outlet length greater than an air
outlet largest dimension.
 7. The dryer of claim 6 wherein said air outlet is circular and has a length of about 3 to about
5 times larger than a diameter of the air outlet.

8. The dryer of claim 1 further comprising a dryer housing having a rear wall for mounting said housing, said air outlet being angled towards said rear wall.

9. The dryer of claim 1 further comprising a second air outlet.

10. The dryer of claim 1 wherein said blower generates an airstream having a velocity no less than 18,000 linear feet per minute.

11. The dryer of claim 1 further comprising sound absorbing material to reduce sound level.

12. The dryer of claim 11 wherein said sound absorbing material is positioned in a sound cavity to generate a plurality of reflections off said sound absorbing material.

13. The dryer of claim 1 further comprising proximity sensor for detecting the presence of an object and initiating drying.

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14. The dryer of claim 1 wherein said heater is located after said blower.

15. The dryer of claim 1 further comprising a motor coupled to said blower, said motor being a brushless motor.

16. The dryer of claim 1 further comprising a motor coupled to said blower, said motor being a brush-type motor.

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17. The dryer of claim 16 further comprising a surge suppressor in series with the brush motor to reduce starting current surge and to extend brush life.

18. A method of operating a dryer having a blower driven by a motor, the method comprising:

initiating a blow-off phase during which said blower operates at a first speed;
initiating an evaporation phase during which said blower operates at a second speed slower than said first speed.

19. The method of claim 18 wherein said blow-off phase has a duration of about 2 to about 3 seconds.

20. The method of claim 18 wherein said evaporation phase has a duration of about 8 to about 12 seconds.

21. The method of claim 18 wherein the dryer includes a heater and the method includes, operating the heater at a first current during said blow-off phase and operating the heater at a second current said evaporation phase.

22. The method of claim 18 wherein said blow-off phase disrupts a stagnation boundary layer on a surface.

23. The method of claim 18 wherein said evaporation phase promotes evaporation of water from a surface.

24. The method of claim 18 wherein said blower speed is controlled by a frequency of a drive signal applied to said motor.

25. The method of claim 24 wherein said drive signal is generated by:

converting a first signal at a first frequency to a dc signal;
applying said dc signal to an oscillator, said oscillator generating said drive signal, said drive signal having a second frequency higher than said first frequency.

26. The method of claim 18 wherein said blower speed is controlled by gears coupling said motor and said blower.

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28. A dryer comprising:

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